

## UBESTA 3030JI46

### Technical Product Information

UBESTA 3030JI46 is a plasticized and impact modified Polyamide 12 suitable for flexible pneumatic and hydraulic tubes with low migration properties. This material has following features:

- Excellent flexibility
- High weather resistance
- Excellent processability

Basic Properties <sup>(1)</sup>		Method	Unit	Value
<b>Polymer</b>		-	-	PA12
<b>Colour</b>		-	-	Natural
<b>Density</b>		ISO 1183-3	g/cm <sup>3</sup>	1,00
<b>Melting Point</b>		ISO 11357	°C	168
<b>MFI @ 235 °C, 2,16 Kg</b>		ISO 1133	g/10 min	12
<b>Shore Hardness</b>	D scale	ISO 868	-	58
<b>Rockwell Hardness</b>	R scale	ISO 2039-2	-	21

Mechanical Properties <sup>(2)</sup>		Method	Unit	Value
<b>Tensile stress at yield</b>		ISO 527-1,2	MPa	18
<b>Tensile strain at break</b>			%	> 150
<b>Flexural strength</b>		ISO 178	MPa	10
<b>Flexural modulus</b>			MPa	200
<b>Charpy impact strength (notched) <sup>(3)</sup></b>	23 °C	ISO 179/1eA	kJ/m <sup>2</sup>	96 P
	-40 °C		kJ/m <sup>2</sup>	5 C

Thermal Properties <sup>(2)</sup>		Method	Unit	Value
<b>Temp. of deflection under load</b>	0,45 MPa	ISO 75-2	°C	68
	1,80 MPa		°C	43
<b>Coefficient of linear expansion</b>		ISO 11359-2	x 10 <sup>-4</sup> /K	1,9

Note: All tests carried dry as mould

(1) Measured on pellets

(2) Measured on injection-moulded specimens, based on ISO type

(3) P=partial break, C=complete break

## Processing conditions

Extruder							Die
	Hopper	Zone 1	Zone 2	Zone 3	Zone 4	Adaptor	
Temperature (°C)	40 - 120	190 - 210	210 - 230	210 - 230	210 - 230	210 - 230	210 - 230

## Drying conditions

UBESTA is supplied dry (moisture content < 0,1%) and packed in high barrier films. However, as polyamide is a hygroscopic material, the user should take a special care of the possible moisture absorption once the bag or liner box has been opened. In case of moisture absorption, the material should be dried with dehumidified air at 80°C for more than 4 hours.

## Storage

Well-sealed packages could be stored in cool and dry conditions over long periods of time. Protect the packages from heat and direct sunlight to prevent possible damages.

## Health & environmental data

Please refer to the corresponding **UBESTA** grade Safety Data Sheet (SDS).

### IMPORTANT NOTICE:

The contents of here written materials were prepared based on materials, information and data available at the present moment. They may be revised because of new knowledge, information and data without notification. The data described herein are averaged values obtained by specific measurement. They are not guaranteed figures. UBE does not warrant or guarantee the quality or safety of your finished products, including but not limited to implied warranties of merchantability, fitness for a particular purpose and non-infringement of third-party rights or arising from a course of dealing, usage or trade practice even if UBE's products and data herein or any other information proposed by UBE are used to manufacture the finished products. Determination of suitability, merchantability or fitness for a particular purpose of your finished products shall be on your responsibility. UBE has no liability or legal responsibility for any issues or problems in relation to standards, regulations, laws, intellectual property rights - especially patent rights, etc. derived from any applications of UBE products for your finished products. So it should be fully researched and studied by yourself. UBE highly recommends reading Safety Data Sheet "SDS" before using UBE Products to ensure your safety. "UBE NYLON" and "UBESTA" is registered trademark in Japan and other countries.